XSM96PSKT
XSM96GSKT
(See details page 2)

NETGEAR®
LIFETIME
WARRANTY*

Promotion valid until 31st March 2012

Managed infrastructure

Mid-sized businesses, hospitals and schools have the same bandwidth needs as large enterprises. With the wide adoption of virtualization, audio-video-data convergence, and rapid growth of bandwidth intensive applications, there is a continued demand for faster network connectivity. The widespread deployment of Gigabit to the desktop is becoming a bottleneck for any network access layer.

10 Gigabit Ethernet represents the solution to many of the scaling challenges presented by the edge of today's networks. Successful 10 Gigabit Ethernet deployments require intelligent switching solutions with integrated security, high availability, delivery optimization, enhanced manageability, and support for new applications.

NETGEAR ProSafe® 10 Gigabit Aggregation and Next-Gen Edge Managed switches are ideal for all organizations considering reliable, affordable and simple 10 Gigabit Ethernet backbone architectures.

10 Gigabit Virtual Chassis stacking technology and 10 Gigabit Distributed link aggregation present an opportunity to scale both the entire network's performance and its redundancy. Get started today with these special starter kit promotions. But hurry as quantities are limited!

30% INSTANT SAVINGS

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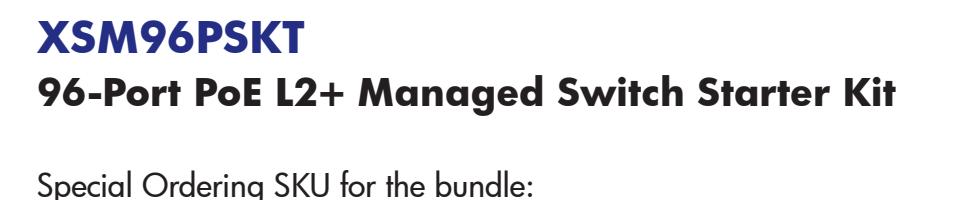
XSM96PSKT
96-Port PoE L2+ Managed Switch Starter Kit

Special Ordering SKU for the bundle:
XSM96PSKT-100NAS (Americas)
XSM96PSKT-100EUS (Europe)
XSM96PSKT-100AUS (Asia Pacific)

XSM96GSKT
96-Port L3 Managed Switch Starter Kit

Special Ordering SKU for the bundle:
XSM96GSKT-100NAS (Americas)
XSM96GSKT-100EUS (Europe)
XSM96GSKT-100AUS (Asia Pacific)

Components	Description	Quantity	Components	Description	Quantity
XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch 24p SFP+ with stacking	1	XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch 24p SFP+ with stacking	1
GSM7252PS	NETGEAR ProSafe L2+ Gigabit Managed Switch 48p PoE with 2 built-in SFP+ and 10GE stacking	2	GSM7352S	NETGEAR ProSafe L3 Gigabit Managed Switch 48p with 2 built-in SFP+ and 10GE stacking	2
AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)	2	AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)	2
AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable	2	AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable	2
AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5µm/125µm or OM3 50/125µm)	2	AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5µm/125µm or OM3 50/125µm)	2

A Complete and Secure Solution

NETGEAR ProSafe® 10 Gigabit Aggregation and Next-Gen Edge solution offers a secure, future-proof networking infrastructure. End-users, critical services, servers and storage seamlessly connect across highly flexible core, distribution and access layers. NETGEAR Managed Infrastructure makes the most of state-of-the-art technologies including Virtual Chassis Stacking and Distributed Link Aggregations that work in concert to create a reliable, simple and affordable Campus LAN solution.

A single-pane-of-glass management platform – NMS200 – increases overall operational efficiency.

Building 1: XSM96GSKT
For a collapsed Aggregation/Edge application, the XSM96GSKT starter kit comes with 24 Gigabit stacking kits for the two GSM7352S: the virtual chassis enables single, common fabric manageability. Starter kit also comes with DAC SFP+ cables for increased network resilience: the XSM7224S can further boost performance by bundling (trunking) several parallel 10 Gigabit links and connecting the virtual GSM chassis with LACP load balancing and automatic failover.

Building 2: XSM96PSKT
For a distributed Edge application, the XSM96PSKT starter kit comes with multimode SFP+ optics for the two GSM7252PS: a resilient 10 Gigabit distribution to a virtual chassis at the edge increases flexibility and reduces operational complexity.

XCM8810

Fiber, 10GBase-LR single mode
Fiber, 10GBase-SR multimode
Fiber, 10GBase-LRM multimode
Copper, 10GE SFP+ DAC Cable

Copper, Gigabit RJ45
Copper, Gigabit PoE RJ45

CORE LAYER

XSM7224S and GSM7352S

XSM7224S

Servers, Storage

BACKBONE – BUILDING 1

BACKBONE – BUILDING 2

AGGREGATION LAYER

COLLAPSED AGGREGATION/ACCESS LAYER

GSM7252PS

NMS200

ACCESS LAYER

WIRING CLOSET – BUILDING 2
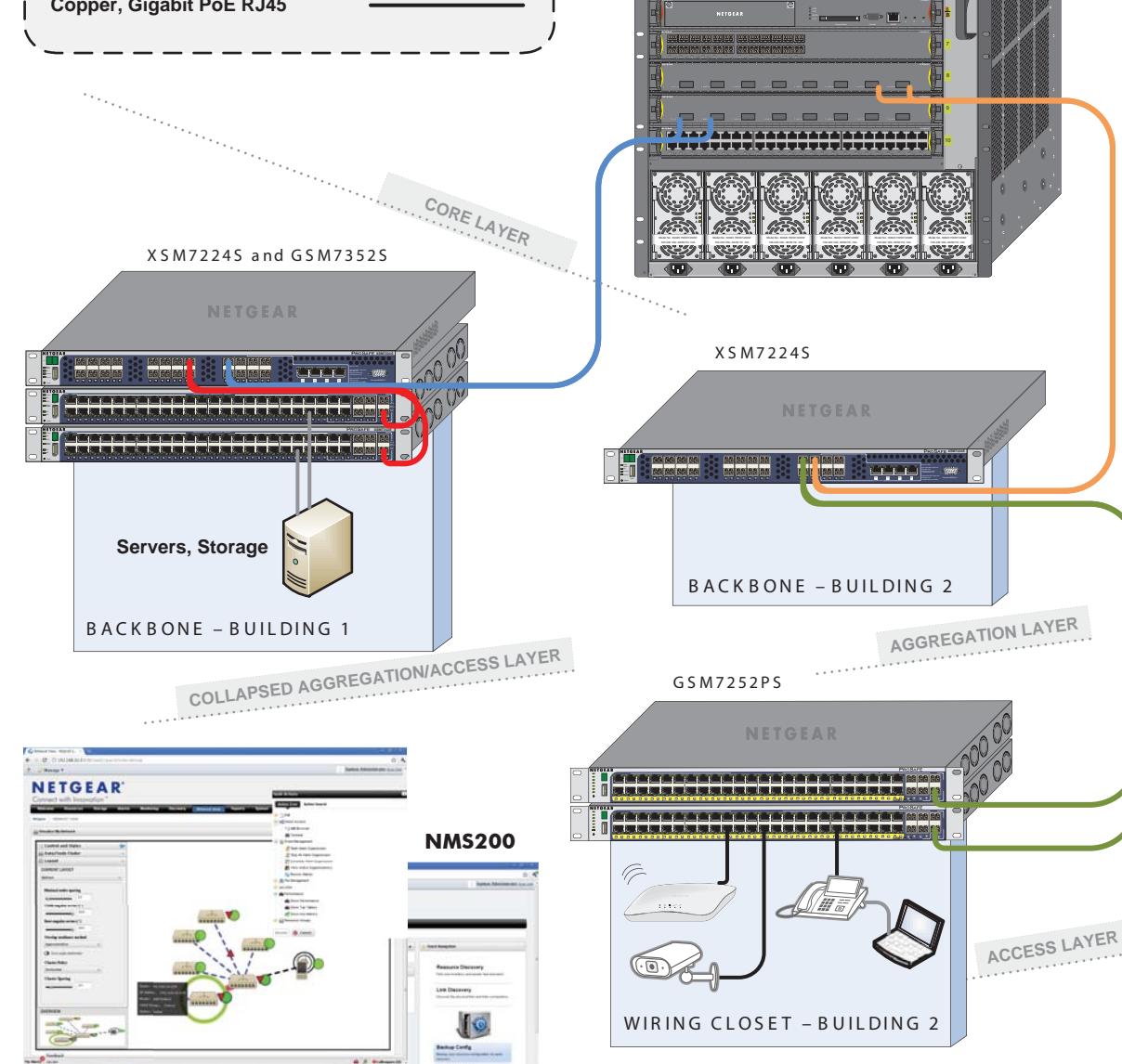
Virtual Chassis Stacking Technology

Technology Overview
NETGEAR Virtual Chassis stacking technology provides resilient network architecture: up to 8 independent switches (GSM7xxxS series) or up to 4 independent switches (XSM7xxxS series) are consolidated around a single management IP address, which simplifies network operations.

The stack acts as a single switch in the network:
- One CLI and one web interface managing the virtual chassis
- The other switches in the network also "see" the stack as a virtual chassis
- The virtual chassis needs only one configuration file, similar to a typical modular chassis switch
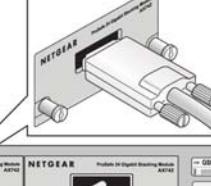
NETGEAR Virtual Chassis stacking technology is flexible:
- GSM7xxxS series switches intelligently join the Virtual Chassis architecture with a 48-Gbps switching stack interconnect, when using local AX742 stacking kits
- 10 Gigabit fiber is also available for distant GSM7xxxS – local and distant switches can join the same stack
- XSM7xxxS series switches are even more flexible: all ports are Stack capable – you can use up to 4 ports per stack interconnect to create a 80Gbps Stacking backplane
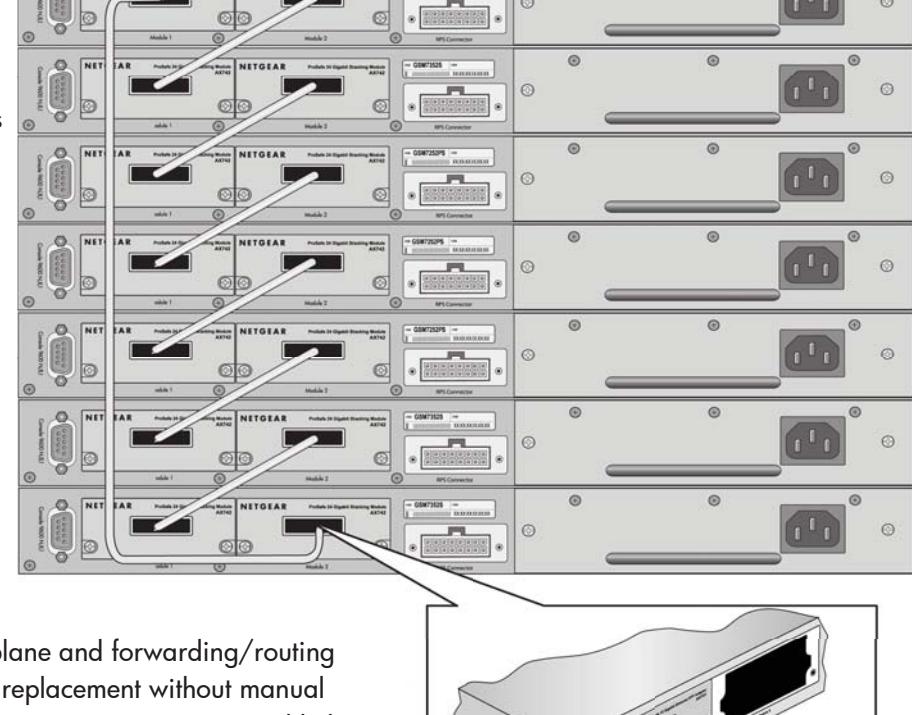
NETGEAR Virtual Chassis stacking technology delivers a bidirectional, highly resilient topology:
- Higher throughput capacity with lower latency and jitter for VoIP and Multicast traffic
- Each switch in the stack understands the shortest path to forward traffic, bi-directionally both up and down
- Dual ring architecture ensures that if a switch fails within the stack, all others switches can still communicate with one another
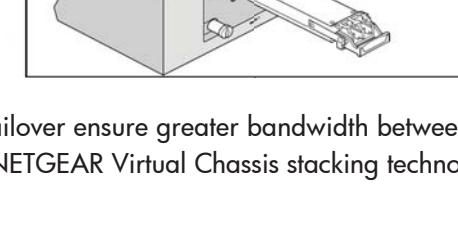
Virtual Chassis Functionality
Within the stack, a switch is elected as the "Master": the master is responsible for the control plane and forwarding/routing tables for the stack members. Automatic Unit Replacement guarantees stack members' smooth replacement without manual reconfiguration. Stack master redundancy is also automatic. As for a Chassis switch, VLAN tagging, port mirroring and link aggregation are available from every port to every port across the stack.

Distributed Link Aggregation
Distributed trunking across the stack allows redundant uplinks without creating loops: LACP automatic load-balancing and port failover ensure greater bandwidth between network layers and maximize redundancy. Active-active connections radically improve performance for servers at the same time. NETGEAR Virtual Chassis stacking technology delivers resiliency, simplicity and better performance throughout the entire network.

Competitive Summary

NETGEAR ProSafe 10 Gigabit Aggregation and Next-Gen Edge starter kits efficiently compete against HP Networking 5400zl and 8200zl series:
- Virtual Chassis stacking technology allows for highly resilient stacking topology while the HP 5400zl doesn't provide fabric/management redundancy
- NETGEAR Starter Kits provide equal or better features with up to 30% savings compared to HP
- NETGEAR Starter Kits come with a 24-port 10 Gigabit Aggregation switch (XSM7224S) – a $8,000 value!

Example for PoE:	NETGEAR XSM96PSKT	HP 5412-92G-PoE+-2XG v2 zl (J9532A)	HP 8212-92G-PoE+-2XG v2 zl (J9639A)
Estimated street price (www.cdw.com)	$12,300	$13,300	$17,800
HARDWARE FEATURES:			
Gigabit RJ45 ports in this bundle	96 PoE (including 16 PoE+)	92 PoE/PoE+	92 PoE/PoE+
Gigabit SFP ports in this bundle	8 SFP	0	0
10 Gigabit ports in this bundle	4 SFP+ and 24 SFP+ aggregation layer	2 SFP+	2 SFP+
Max. Gigabit port density/1 IP	384 PoE / Non-PoE	284 PoE / Non-PoE	288 PoE / Non-PoE
Fabric redundancy	Yes – redundant fabric / management (Virtual Chassis stacking technology)	No redundancy	Yes – redundant fabric / management
Backplane access	48 Gbps per unit in the stack	48 Gbps per blade in the chassis	48 Gbps per blade in the chassis
SOFTWARE FEATURES:			
L2 / L3 / L4 ACLs and QoS	Yes	Yes	Yes
Lite-L3 routing	Yes, Static Routing	Yes, Static Routing	Yes, Static Routing
Dynamic routing	RIP, VRRP, OSPF with L3 license or when one GSM73xxS in the stack	RIP, VRRP, OSPF	RIP, VRRP, OSPF
Multicast L2 filtering	IGMP Snooping, Querier	IGMP Snooping	IGMP Snooping
Multicast L3 routing	PIM-DM and PIM-SM with L3 license or when one GSM73xxS in the stack	PIM-DM, PIM-SM	PIM-DM, PIM-SM
IPv6 Management	Yes	Yes	Yes
IPv6 Full Support	Yes with L3 license or when one GSM73xxS in the stack	Yes	Yes
AGGREGATION LAYER:			
24-port 10 Gigabit Aggregation?	Yes – one XSM7224S in the bundle	No	No

Starter Kits: possible options and upgrades

10 Gigabit Aggregation
|	
XSM7224S	NETGEAR ProSafe L2+ 10 Gigabit Managed Switch - 24p SFP+ with stacking
XSM7224L	NETGEAR ProSafe Layer 3 License Upgrade for XSM7224S

Next-Gen Edge, Gigabit
GSM7228PS	NETGEAR ProSafe L2+ Gigabit Managed Switch - 24p PoE with 2 built-in SFP+ and 10GE stacking
GSM7228PL	NETGEAR ProSafe Layer 3 License Upgrade for GSM7228PS
GSM7252PS	NETGEAR ProSafe L2+ Gigabit Managed Switch - 48p PoE with 2 built-in SFP+ and 10GE stacking
GSM7252PL	NETGEAR ProSafe Layer 3 License Upgrade for GSM7252PS
GSM7328S	NETGEAR ProSafe L3 Gigabit Managed Switch - 24p with 2 built-in SFP+ and 10GE stacking
GSM7352S	NETGEAR ProSafe L3 Gigabit Managed Switch - 48p with 2 built-in SFP+ and 10GE stacking
GSM7328FS	NETGEAR ProSafe L3 Gigabit Managed Switch - 24p Fiber with 10GE stacking

Modules – Redundancy and Availability
APS300W	NETGEAR ProSafe Additional Redundant Power Supply for XSM7224S
AFT200	NETGEAR ProSafe Replacement Fan Tray for XSM7224S
RPS5412	Optimal Power External Redundant Power Supply for GSM72 and GSM73 Series
APS525W	NETGEAR ProSafe Extractible Power Supply for GSM7228PS and GSM7252PS Series
APS135W	NETGEAR ProSafe Extractible Power Supply for GSM7328S and GSM7352S Series

Modules – Optics and Cables
AXM761	NETGEAR ProSafe 10GBase-SR SFP+ LC Optics (multimode, 300m OM3 50/125µm, 33m OM1 62.5/125µm)
AXM763	NETGEAR ProSafe 10GBase-LRM SFP+ LC Optics (long reach multimode, 220m OM1 62.5/125µm or OM3 50/125µm)
AXM762	NETGEAR ProSafe 10GBase-LR SFP+ LC Optics (single mode, 10km 9/125µm)
AXC761	NETGEAR ProSafe 1m Direct Attach SFP+ to SFP+ Cable
AXC763	NETGEAR ProSafe 3m Direct Attach SFP+ to SFP+ Cable
AXC753	NETGEAR ProSafe 3m Direct Attach XFP to SFP+ Cable
AX742	NETGEAR ProSafe 24G Stacking Kit for GSM7xxxS series (2 modules, 1 cable)
AGM734	NETGEAR ProSafe 1000BaseT SFP RJ45 GBIC (for Gigabit RJ45 connectivity across all XSM7224S SFP+ ports)
AGM731F	NETGEAR ProSafe 1000Base-SX SFP LC GBIC (multimode, 550m OM3 50/125µm, 275m OM1 62.5/125µm)
AGM732F	NETGEAR ProSafe 1000Base-LX SFP LC GBIC (single mode, 10km 9/125µm)

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